ABSTRACT OF THE DISCLOSURE

An intracavity-doubled laser device, includes a pumping laser-diode, a Nd:YAG amplifying medium stimulated by a laser beam with a fundamental wavelength emitted by the laser diode, the output face of the amplifying medium being cut at the Brewster angle for the fundamental wavelength and a birefringent frequency-doubling KNbO3 crystal. The device further includes an isotropic medium (3), inserted between the input face (8) of the birefringent crystal, the amplifying medium (2) and the birefringent crystal (4), being fixed to each other such as to provide a monolithic resonant cavity. Furthermore, the crystal axis "c" of the birefringent crystal includes a non-zero angle <c with relation to the orthogonal direction of polarization of the fundamental wave defined by the Brewster surface.